

What is claimed is:

1. An asphalt-based roofing material comprising:
a mat saturated and coated with an asphalt-based coating, the coating including a top portion covering the top of the mat, a mat portion saturating the mat, and a bottom portion covering the bottom of the mat;
wherein the top portion of the coating comprises a mixture of asphalt and rock particles selected from the group consisting of igneous rock particles, metamorphic rock particles, and mixtures thereof; and
wherein the mat portion of the coating comprises a mixture of asphalt and filler, the filler containing no more than about 10% rock particles selected from the group consisting of igneous rock particles, metamorphic rock particles, and mixtures thereof, by weight of the filler.
2. A roofing material according to claim 1 wherein the filler in the mat portion of the coating comprises rock particles.
3. A roofing material according to claim 2 wherein the rock particles comprise sedimentary rock particles.
4. A roofing material according to claim 1 wherein the filler in the top portion of the coating comprises trap rock particles, and the filler in the mat portion of the coating comprises limestone particles.
5. A roofing material according to claim 1 wherein the bottom portion of the coating comprises a mixture of asphalt and filler, the filler containing no more than about 10% rock particles selected from the group consisting of igneous rock particles, metamorphic rock particles, and mixtures thereof, by weight of the filler.

6. An asphalt-based roofing material comprising:

a mat saturated and coated with an asphalt-based coating, the coating including a top portion covering the top of the mat, a mat portion saturating the mat, and a bottom portion covering the bottom of the mat;

5 wherein the top portion of the coating meets or exceeds a pliability standard described in CSA Standard A123.5-98; and

wherein the bottom portion of the coating does not meet the pliability standard.

10 7. A roofing material according to claim 6 wherein the top portion of the coating is made with a ferric treated asphalt.

8. An asphalt-based roofing material comprising:

15 including a top portion covering the top of the mat, a mat portion saturating the mat, and a bottom portion covering the bottom of the mat, the top portion of the coating including a top surface layer;

20 wherein at least the top surface layer of the top portion passes a weathering performance test as measured by at least 60 cycles-to-failure using ASTM Method D4799; and

wherein the bottom portion of the coating does not pass the weathering performance test.

25 9. A roofing material according to claim 8 wherein the top surface layer is at least about 0.023 inch (0.058 cm) thick.

10. A roofing material according to claim 8 wherein the entire top portion of the coating passes the weathering performance test.

11. An asphalt-based roofing material comprising:

a mat saturated and coated with an asphalt-based coating, the coating including a top portion covering the top of the mat, a mat portion saturating the mat, and a bottom portion covering the bottom of the mat, the top portion of the coating including a top surface layer;

wherein at least the top surface layer of the top portion has a solar reflectance of at least 0.7 when tested by ASTM Method E903; and

wherein the bottom portion of the coating has a solar reflectance of less than 0.7.

12. A laminated asphalt-based roofing material comprising:

an underlay comprising a mat saturated and coated with an asphalt-based coating, the coating including a top portion covering the top of the mat, a mat portion saturating the mat, and a bottom portion covering the bottom of the mat, the top portion of the coating including a top surface layer; and

an overlay covering a portion of the top of the underlay, and leaving a portion of the underlay uncovered, the overlay comprising a layer of an asphalt-based coating, the coating layer including a top surface layer;

wherein at least the top surface layer of the overlay, and at least the top surface layer of the underlay on the uncovered portion of the underlay, are made with an asphalt having viscoelastic properties effective to prevent the coating from sticking to a coating of an adjacent shingle when the shingles are stacked face to face in a bundle and stored at a temperature exceeding 90°F (32°C); and

wherein the bottom portion of the underlay coating is made with an asphalt not having the viscoelastic properties.